

X/3  
NUSING.002A



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Farhang-Boroujeny, et al.	)
			)
App. No.	:	09/532,536	)
			)
Filed	:	March 22, 2000	)
			)
For	:	METHOD AND APPARATUS FOR	)
		ECHO CANCELLATION IN AN	)
		ASYMMETRIC COMMUNICATION	)
		SYSTEM	)
			)
Examiner	:	Unknown	)

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone (949) 760-0404, Customer No. 20,995, as its attorneys with full power of substitution and

App. No. : 09/\_\_\_\_\_,536  
Filed : March 22, 2000

revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use Customer No. 20,995 for all communications.

National University of Singapore

Dated: May 25, 2000

By: Casey Chan  
Chou Siaw Kiang Casey Chan Ke

Title: Director of Industry & Technology  
Relations Office, National University of Singapore

Address: 10 Kent Ridge Crescent, Singapore  
119260, Singapore

S:\DOCS\MMMA\MMA-2245.DOC  
042800

Application No.: 09/532,536  
Filing Date: March 22, 2000

## ASSIGNMENT

WHEREAS, We, Behrouz Farhang-Boroujeny, an Iranian citizen, residing at Block 111C, #10-03, Kent Vale, Clementi Road, Singapore 129792, Singapore, and Chong Yuan Ng, a Singaporean citizen, residing at Block 331, Clementi Ave 2, #09-140, Singapore 120331, Singapore, have invented certain new and useful improvements in a METHOD AND APPARATUS FOR ECHO CANCELLATION IN AN ASYMMETRIC COMMUNICATION SYSTEM for which we have filed an application for Letters Patent in the United States, Application No. 09/532,536, filing date March 22, 2000;

AND WHEREAS, National University of Singapore (hereinafter "ASSIGNEE"), a Singapore Corporation, with its principal place of business at 10 Kent Ridge Crescent, Singapore 119260, Singapore, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 22 day of May, 2000



Behrouz Farhang-Boroujeny

STATE OF    ss.  
COUNTY OF   

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Behrouz Farhang-Boroujeny personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

\_\_\_\_\_  
Notary Signature

Application No.: 09/532,536  
Filing Date: March 22, 2000

PATENT  
Client Code: NUSING.002A  
Page 2

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 22 day of May, 2000.

*Chong Yuan Ng*

Chong Yuan Ng

STATE OF      ss.  
COUNTY OF     

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared Chong Yuan Ng personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

\_\_\_\_\_  
Notary Signature

S:\DOCS\MMA\MMA-2248.DOC  
042800